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12/01/2004 11:44 AM

To: Carlyn Prisk/R3/USEPA/US@EPA  
cc: gcarl@houghtonintl.com  
Subject: Houghton's Houghto-GrindR 60



SDMS DocID

2052170

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Reg.

Carlyn,

Attached is the information you requested for Houghto-Grind(r) 60.

<<HoughtoGrind60.pdf>> <<HoughtoGrind60.doc>>

I could only find information as far back at the late 1970's. The formula remains basically the same throughout.

I hope you find this information useful. Please feel free to contact us if you need any further information.

Best regards,  
Lori

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Lori Andreacola

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Houghton International Inc.  
**Material Safety Data Sheet**  
**HOUGHTO-GRIND 60**

Revision Date : 09/08/1999

**1. Chemical Product and Company Identification**

Product Name	HOUGHTO-GRIND 60	Emergency Phone Number	24 HOUR - (800) 424-9300 (CHEMTREC)
Company Name	Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482	FAX	(610) 666-1376
Website	www.houghtonintl.com	Customer Service	(888) 459-9844
Telephone	(610) 666-4000		

**2. Hazardous Ingredients**

Component	Cas No	% by Weight	Hazards
Diethanolamine	111-42-2	<1	TLV: 2 mg/m <sup>3</sup> (skin) PEL: 3 ppm (vacated) STEL: N/E Other: N/E
Monoethanolamine	141-43-5	1-10	TLV: 3 ppm PEL: 3 ppm STEL: 6 ppm Other: N/E
Triethanolamine	102-71-6	1-10	TLV: 5 mg/m <sup>3</sup> PEL: N/E STEL: N/E Other: N/E

N/E - Not Established; N/A - Not Applicable; Mfr - Manufacturer Recommendation

**3. Hazards Identification**

Primary Entry Routes EYES, SKIN, INHALATION

## Acute Effects

Inhalation	MISTS MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT.
Eye	MAY CAUSE IRRITATION.
Skin	MAY CAUSE IRRITATION.
Ingestion	INGESTION OF LARGE AMOUNTS MAY AFFECT PERSONS WITH EXISTING KIDNEY AND LIVER DISEASE.



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### 3. Hazards Identification - continued

Carcinogenicity	NO COMPONENT KNOWN TO BE PRESENT IN THIS PRODUCT AT GREATER THAN 0.1% IS LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.
Medical Conditions Aggravated by LongTerm Exposure	PRE-EXISTING SKIN AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPSOURE.
Chronic Effects	UNKNOWN
HMIS:	
Health	1
Flammability	0
Reactivity	0
Personal Protection	B

### 4. First Aid Measures

Inhalation	REMOVE TO SOURCE OF FRESH AIR. SEE SECTION 2 FOR APPLICABLE EXPOSURE LIMITS.
Eye Contact	FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
Skin Contact	WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSING.
Ingestion	GIVE WATER OR MILK AND INDUCE VOMITING. CONSULT PHYSICIAN
Note to Physicians	NO SPECIFIC ANTIDOTE KNOWN. BASED ON INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITIONS.

N/A - Not Applicable

### 5. Fire Fighting Measures

Flash Point	N/A
Autoignition Temperature	N/D
LEL	N/D
UEL	N/D

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**5. Fire Fighting Measures - continued**

Extinguishing Media	PRODUCT CONTAINS WATER. IF WATER IS REMOVED, USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM.
Unusual Fire or Explosion Hazards	NONE
Fire Fighting Instructions	WEAR SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES.
NFPA:	
Health	1
Flammability	0
Reactivity	0
Special	N/A

N/A - Not Applicable; ND - Not Determined; > - Greater Than; < - Less Than

**6. Accidental Release Measures**

Spill or Release Procedures	DILUTE WITH WATER AND MOP UP THOROUGHLY OR APPLY DRY ABSORBENT MATERIAL AND SWEEP UP.
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**7. Handling and Storage**

Handling Precautions	AVOID CONTACT WITH STRONG OXIDIZERS. WASH THOROUGHLY AFTER HANDLING. WEAR GOGGLES AND GLOVES WHEN HANDLING NEAT MATERIAL. DO NOT ADD NITRITES TO THIS PRODUCT. USE WITH ADEQUATE VENTILATION.
Storage Requirements	KEEP CONTAINERS CLOSED WHEN NOT IN USE.

**8. Exposure Controls/Personal Protection**

Engineering Controls	GENERAL MECHANICAL VENTILATION IS OK. LOCAL EXHAUST WHEN MISTING.
Personal Protective Equipment	
Eye/Face Protection	SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.
Skin Protection	RUBBER GLOVES.



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### 8. Exposure Controls/Personal Protection - continued

Respiratory Protection      REQUIRED IF THE EXPOSURE LIMITS IN SECTION 2 ARE EXCEEDED.

Other      EYE WASH AND SAFETY SHOWER RECOMMENDED.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or applying cosmetics.

### 9. Physical and Chemical Properties

Appearance	GREEN FLUORESCENT LIQUID	pH (Neat)	10.4
Odor	AMINE	pH (Dilution)	
Vapor Pressure (mmHg)	AS WATER	At Percent	5
Vapor Density (Air = 1)	AS WATER	pH	9.7
Specific Gravity (Water = 1)	1.08	Water Solubility	COMPLETE
		Boiling Point	215°F
		Freezing/ Melting Point	N/D
		Evaporation Rate (BuAc = 1)	AS WATER

N/D - Not Determined; N/A - Not Applicable; > - Greater Than; < - Less Than

### 10. Stability and Reactivity

Stability	THIS PRODUCT IS STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.
Chemical Incompatibilities	STRONG OXIDIZERS
Hazardous Decomposition Products	THERMAL: OXIDES OF CARBON AND NITROGEN
Hazardous Polymerization	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.



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**11. Toxicological Information**

NO DATA AVAILABLE

**12. Ecological Information**

NO DATA AVAILABLE

**13. Disposal Considerations**

Disposal

FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE (40 CFR 261.20-24).

RCRA Hazardous Waste  
Number

N/A

**14. Transportation Information**

Proper Shipping Name

NOT HAZARDOUS

**15. Regulatory Information**

TSCA Section 8(b)

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

CERCLA Reportable  
Quantity

THIS PRODUCT CONTAINS 0.15% DIETHANOLAMINE (RQ - 100 LBS).

SARA Title III, Section 313

THIS PRODUCT CONTAINS NO TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

Ozone Depleting  
Substances

THIS PRODUCT WAS NOT MANUFACTURED, DOES NOT CONTAIN, AND WAS NOT PACKAGED USING ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCE AS DEFINED BY THE CLEAN AIR ACT.



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**16. Other Information**

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PRELIMINARY FINDINGS FROM THE NATIONAL TOXICOLOGY PROGRAM SUGGEST AN INCREASED INCIDENCE OF LIVER TUMORS IN BOTH SEXES OF MICE AND AN INCREASED INCIDENCE OF KIDNEY TUMORS IN MALE MICE DERMALLY EXPOSED FOR THEIR LIFETIME TO DIETHANOLAMINE. THE SIGNIFICANCE OF THESE FINDINGS AND THEIR RELEVANCE TO HUMANS ARE NOT CLEAR AS DIETHANOLAMINE WAS NOT GENOTOXIC AND DID NOT INDUCE TUMORS IN RATS OR IN TRANSGENIC MICE SIMILARLY TREATED. ADDITIONAL RESEARCH WHICH IS DESIGNED TO PROVIDE A BETTER UNDERSTANDING OF THE SIGNIFICANCE OF THESE OBSERVATIONS TO HUMANS, IF ANY, IS UNDERWAY.

Prepared By                      GARY CARL  
Title                                MANAGER, PRODUCT SAFETY

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**HOUGHTO-GRIND® 60**

Material

Weight Percent

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
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[REDACTED]  
[REDACTED]  
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September 8, 1999

Deleted: August 11, 1998